



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 147333

**TO: Deborah Lambkin
Location: REM-5C18
Art Unit: 1626
Wednesday, March 16, 2005**

Case Serial Number: 10/758791

**From: Mary Hale
Location: Biotech/Chem Library
Rem 1D86
Phone: 2-2507**

Mary.Hale@uspto.gov

Search Notes

Feel free to contact me if you have any questions.

147333

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Deborah Lamborn Examiner #: 71300 Date: 3/9/05
Art Unit: 1626 Phone Number 302-0648 Serial Number: 10/758,791
Mail Box and Bldg/Room Location: REM 5809 Results Format Preferred (circle): PAPER DISK E-MAIL

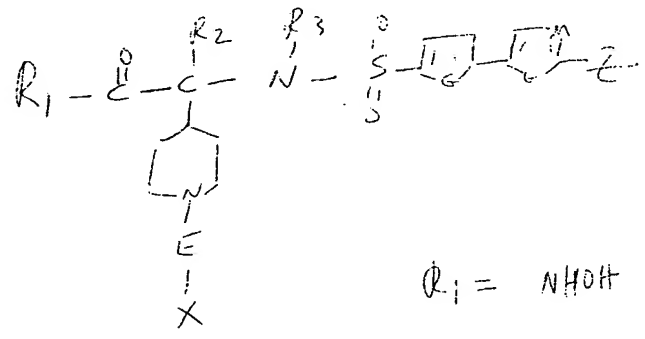
If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Heterocyclic side chain containing -N-sub. unstable inh.
Inventors (please provide full names): Stanislav P. Khand et al

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



R1 = NHOH

Cl. 1 attached.

Thank you

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

10 | 758791

Searched by: Mary Hale 571-272-2507 REM 1D86

of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 16 Mar 2005 VOL 142 ISS 12
FILE LAST UPDATED: 15 Mar 2005 (20050315/ED)

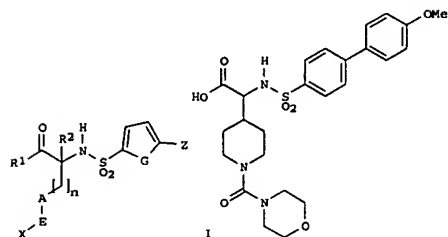
This file contains CAS Registry Numbers for easy and accurate substance identification.

L4 6 L3

=> d 1-6 cbib abs hitstr

L4 ANSWER 1 OF 6 HCAPLAUS COPYRIGHT 2005 ACS on STN
 2003:717760 Document No. 139:245903 Preparation of
 (hetero)arylsulfonylamino]-[1-substituted-piperidin-4-yl]-acetic acids
 as metalloprotease inhibitors. Pikul, Stanislaw; Ohler, Norman Eugene;
 Almstead, Neil Gregory; Laughlin, Steven Karl; Natchus, Michael George;
 De, Bievanath (USA). U.S. Pat. Appl. Publ. US 2003/171400 A1 20030911, 33
 pp., Cont.-in-part of Appl. PCT/US01/08783. (English). CODEN: USXKCO.
 APPLICATION: US 2002-246201 20020918. PRIORITY: US 2000-PV191303
 20000321; WO 2001-US8783 20010320.

GI



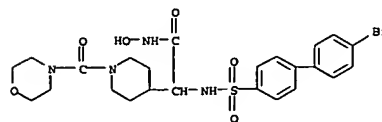
II

AB The title compds. [I; R1 = OH, NHOH; R2 = H, alkyl, haloalkyl, etc.; A = (un)substituted monocyclic heterocycloalkyl; A can be connected to R2 to form (un)substituted monocyclic heterocycloalkyl; n = 0-4; E = a bond, alkyl, CO, etc.; X = H, alkyl, aryl, etc.; G = S, O, N; Z = cycloalkyl, heterocycloalkyl, etc.] such as II which are inhibitors of metalloproteases and which are effective in treating conditions characterized by excess activity of these enzymes such as arthritis and cancer, were claimed and formulated (preps. are given but no data are given for intermediates and final compds.).

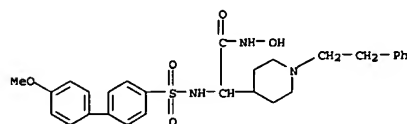
IT 597582-84-8P, 2-[[[4'-bromobiphenyl-4-yl]sulfonyl]amino]-N-hydroxy-2-[1-[(morpholin-4-yl)carbonyl]piperidin-4-yl]acetamide
 597582-85-9P, N-Hydroxy-2-[[[4'-methoxybiphenyl-4-yl]sulfonyl]amino]-2-[1-phenethylpiperidin-4-yl]acetamide
 597582-86-0P, N-Hydroxy-2-[[[4'-methoxybiphenyl-4-yl]sulfonyl]amino]-2-[1-[(thiazol-2-yl)methyl]piperidin-4-yl]acetamide
 597582-87-1P, N-Hydroxy-2-[[[4'-methoxybiphenyl-4-yl]sulfonyl]amino]-2-[1-(2-phenoxyacetyl)piperidin-4-yl]acetamide
 597582-88-2P, N-Hydroxy-2-[[[1-(2-methoxyacetyl)piperidin-4-yl]-2-[[[4'-methoxybiphenyl-4-yl]sulfonyl]amino]acetamide 597582-89-3P, N-Hydroxy-2-[[[4'-methoxybiphenyl-4-yl]sulfonyl]amino]-2-[1-(phenylmethylsulfonyl)piperidin-4-yl]acetamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of
 [(hetero)arylsulfonylamino]-[1-substituted-

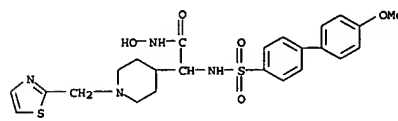
L4 ANSWER 1 OF 6 HCAPLAUS COPYRIGHT 2005 ACS on STN (Continued)
 piperidin-4-yl]-acetic acids as metalloprotease inhibitors)
 RN 597582-84-8 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-bromo[1,1'-biphenyl]-4-yl]sulfonyl]amino]-N-hydroxy-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 597582-85-9 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]-1-(2-phenylethyl)- (9CI) (CA INDEX NAME)

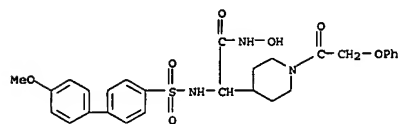


RN 597582-86-0 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]-1-(2-thiazolylmethyl)- (9CI) (CA INDEX NAME)

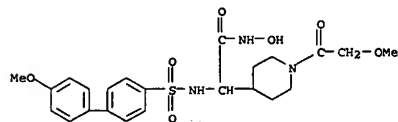


RN 597582-87-1 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]-1-(phenoxyacetyl)- (9CI) (CA INDEX NAME)

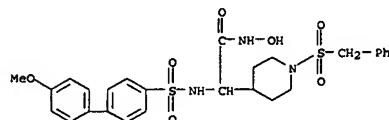
L4 ANSWER 1 OF 6 HCAPLAUS COPYRIGHT 2005 ACS on STN (Continued)



RN 597582-88-2 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-1-(methoxyacetyl)-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]- (9CI) (CA INDEX NAME)



RN 597582-89-3 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]-1-[(phenylmethyl)sulfonyl]- (9CI) (CA INDEX NAME)

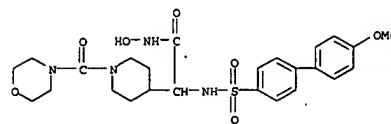


IT 362525-92-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of
 [(hetero)arylsulfonylamino]-[1-substituted-piperidin-4-yl]-
 acetic acids as metalloprotease inhibitors)

RN 362525-92-6 HCAPLAUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonyl]amino]-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 6 HCAPLAUS COPYRIGHT 2005 ACS on STN (Continued)

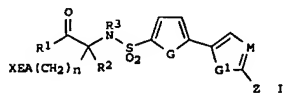


L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS ON STN
2003:570642 Document No. 139:117342 Preparation of
biphenylsulfonamidoheterocyclylcarboxylates as metalloprotease
inhibitors.

Pikul, Stanislaw; Ohler, Norman Eugene; Almstead, Neil Gregory; Laughlin,
Steven Karl; Natchus, Michael George; De, Biswanath; Hershberger, Paul
Mitchell (The Procter & Gamble Company, USA), U.S. Pat. Appl. Publ. US
2003139414 A1 20030724, 30 pp., Cont.-in-part of Appl. No.
PCT/US01/08931.

(English). CODEN: USXXCO. APPLICATION: US 2002-243511 20020913.
PRIORITY: US 2000-PV191302 20000321; WO 2001-US8931 20010302.

GI



AB Title compds. [I; R1 = OH, NHOH; R2 = H, alkyl, alkenyl, alkynyl,
heteroalkyl, haloalkyl, cycloalkylalkyl, heterocycloalkylalkyl, aralkyl,
heteroaralkyl; R3 = alkyl, alkenyl, alkynyl, heteroalkyl, haloalkyl,
(hetero)cycloalkyl, aralkyl, heteroaralkyl; A = (substituted)

monocyclic
heterocycloalkyl having 3-8 ring atoms of which 1-3 are heteroatoms; a, n
= 0-4; E = bond, alkyl, CO, CO2, CONR4, SO2, CSNR4; R4 = H, alkyl,
alkenyl, alkynyl, heteroalkyl, haloalkyl, cycloalkyl, heterocycloalkyl,
aryl, arylalkyl, heteroaryl, heteroaralkyl; X = H, alkyl, alkenyl,
alkynyl, heteroalkyl, haloalkyl, aryl, aralkyl, heteroaryl,
heteroaralkyl,

(hetero)cycloalkyl; G = S, O, NR5, CR5:CR5', N:CR5, N:N; R5, R5' = H,
alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl,
(hetero)cycloalkyl; G1 = S, O, NR6, CR6:CR6', N:CR6, N:N; R6, R6' = H,
alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, cycloalkyl,
heterocycloalkyl; M = CH, N; Z = (CR7R7')aLR8; R7, R7' = H, alkyl,
alkenyl, alkynyl, aryl, heteroalkyl, heteroaryl, (hetero)cycloalkyl.

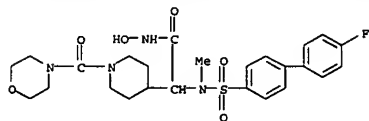
halo,
haloalkyl, OH, alkoxy; L = bond, O, SO2, CO, CONR9, NR9, NR9CO; b = 0-2;
R9 = H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, heteroalkyl,
heteroaryl, (hetero)cycloalkyl, haloalkyl; AR2, XR4, R7R9, R8R9 = atoms

to
form a (substituted) heterocyclic ring containing 5-8 atoms of which 1-3
are

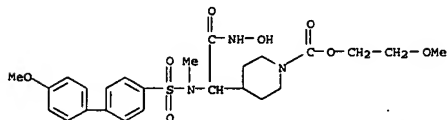
heteroatoms; R8 = H, alkyl, alkenyl, alkynyl, halo, heteroalkyl,
haloalkyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, are claimed.
No synthetic or biol. data is given.

IT 362524-37-6P 564486-57-3P 564486-58-4P
564486-59-5P 564486-60-8P 564486-61-9P
564486-62-0P 564486-63-1P 564486-64-2P
564486-65-3P 564486-66-4P
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

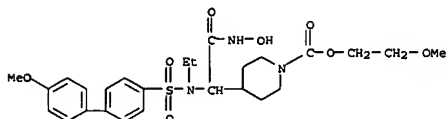
L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS ON STN (Continued)



RN 564486-60-8 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[2-(hydroxyamino)-1-[[[4'-methoxy(1,1'-
biphenyl)-4-yl]sulfonyl]methylamino]-2-oxoethyl]-, 2-methoxyethyl ester
(9CI) (CA INDEX NAME)



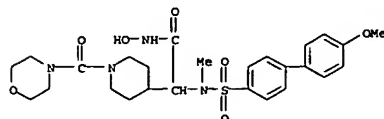
RN 564486-61-9 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[1-[ethyl[[4'-methoxy(1,1'-biphenyl)-4-
yl]sulfonyl]amino]-2-(hydroxyamino)-2-oxoethyl]-, 2-methoxyethyl ester
(9CI) (CA INDEX NAME)



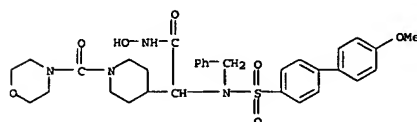
RN 564486-62-0 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[2-(hydroxyamino)-1-[[[4'-methoxy(1,1'-
biphenyl)-4-yl]sulfonyl]methylamino]-2-oxoethyl]-, 2-methoxyethyl
ester (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
(prepn. of biphenylsulfonamidoheterocyclylcarboxylates as
metalloprotease inhibitors)

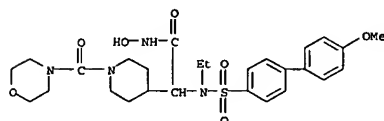
RN 362524-37-6 HCAPLUS
CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy(1,1'-biphenyl)-4-
yl]sulfonyl]methylamino]-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX
NAME)



RN 564486-57-3 HCAPLUS
CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy(1,1'-biphenyl)-4-
yl]sulfonyl]methylamino]-1-(4-morpholinylcarbonyl)- (9CI) (CA
INDEX NAME)

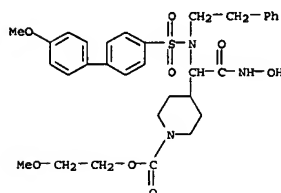


RN 564486-58-4 HCAPLUS
CN 4-Piperidineacetamide, α-[ethyl[[4'-methoxy(1,1'-biphenyl)-4-
yl]sulfonyl]amino]-N-hydroxy-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX
NAME)

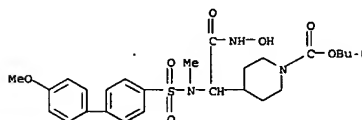


RN 564486-59-5 HCAPLUS
CN 4-Piperidineacetamide, α-[[[4'-fluoro(1,1'-biphenyl)-4-
yl]sulfonyl]methylamino]-N-hydroxy-1-(4-morpholinylcarbonyl)- (9CI) (CA
INDEX NAME)

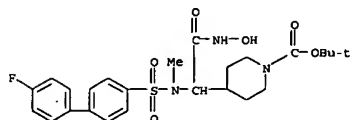
L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS ON STN (Continued)



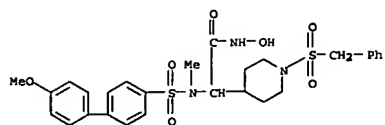
RN 564486-63-1 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[2-(hydroxyamino)-1-[[[4'-methoxy(1,1'-
biphenyl)-4-yl]sulfonyl]methylamino]-2-oxoethyl]-, 1,1-dimethylethyl
ester (9CI) (CA INDEX NAME)



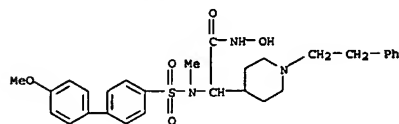
RN 564486-64-2 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[1-[[[4'-fluoro(1,1'-biphenyl)-4-
yl]sulfonyl]methylamino]-2-(hydroxyamino)-2-oxoethyl]-, 1,1-dimethylethyl
ester (9CI) (CA INDEX NAME)



RN 564486-65-3 HCAPLUS
CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy(1,1'-biphenyl)-4-
yl]sulfonyl]methylamino]-1-[(phenylmethyl)sulfonyl]- (9CI) (CA INDEX
NAME)



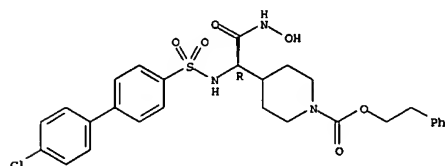
RN 564486-66-4 HCAPIJUS
CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy(1,1'-biphenyl)-4-yl]sulfonyl]methylamino]-1-(2-phenylethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 6 HCAPIJUS COPYRIGHT 2005 ACS on STN (Continued)
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

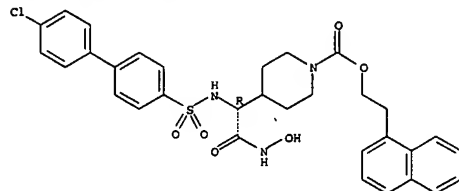
(prepn. as selective matrix-degrading metalloproteinase (MMP-13) inhibitors useful as antiinflammatories)
RN 458560-22-0 HCAPIJUS
CN 1-Piperidinecarboxylic acid, 4-[[[1R]-1-[[[4'-chloro(1,1'-biphenyl)-4-yl]sulfonyl]amino]-2-(hydroxyamino)-2-oxoethyl]-, 2-(1-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 458560-25-3 HCAPIJUS
CN 1-Piperidinecarboxylic acid, 4-[[[1R]-1-[[[4'-chloro(1,1'-biphenyl)-4-yl]sulfonyl]amino]-2-(hydroxyamino)-2-oxoethyl]-, 2-(1-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)

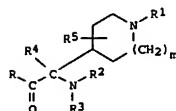
Absolute stereochemistry.



L4 ANSWER 3 OF 6 HCAPIJUS COPYRIGHT 2005 ACS on STN

2001:716273 Document No. 137:232912 Preparation of azacycloalkyl- and arylsulfonylamino-substituted acetic acid derivatives as selective matrix-degrading metalloproteinase (MMP-13) inhibitors useful as antiinflammatories. Fujimoto, Roger Aki; McQuire, Leslie Wighton; Monovich, Lauren G.; Nantemmet, Philippe; Parker, David Thomas; Robinson, Leslie Ann; Skiles, Jerry W.; Tommasi, Ruben Alberto (Novartis A.-G. Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.). PCT Int. Appl. WO 2002072577 A2 20020919. 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-EP2808 20020313. PRIORITY: US 2001-PV275819 20010314; US 2001-PV278572 20010322.

GI



I

AB Comps. I (e.g. (αR)-1-BOC-α-[[[5-(4-trifluoromethylphenyl)-2-thienyl]sulfonyl]amino]-4-piperidineacetic acid) wherein R represents OH or NHOH; R1 represents H, optionally substituted lower alkyl, aryl-lower alkyl, cycloalkyl-lower alkyl, or acyl derived from a carboxylic acid, from a carbonic acid, from a carbamic acid of from a sulfonic acid; R2 represents biarylsulfonyl or aryloxyarylsulfonyl; R3 represents H, optionally substituted lower alkyl, aryl-lower alkyl, cycloalkyl-lower alkyl or acyl derived from a carboxylic acid, from a carbonic acid or

from a carbamic acid; R4 and R5 represent independently H, lower alkyl, lower alkoxy-carbonyl, aryl-lower alkyl or cycloalkyl-lower alkyl; m is 0-3; pharmaceutically acceptable prodrug derivs. thereof; pharmaceutically acceptable salts thereof; pharmaceutical compns. comprising said compds.; and their use for selectively inhibiting the matrix degrading metalloproteinase MMP-13 and preventing or treating matrix metalloproteinase dependent conditions in mammals. Typically, compds. of the invention inhibit collagenase-3 (MMP-13) with IC50s in the range of .apprx.0.1-100 nM and are substantially free of collagenase-1 (MMP-1) inhibition at effective MMP-13 inhibiting concns. The ratio of the IC50 for MMP-1 inhibition to the IC50 for MMP-13 inhibition is typically in the range of .apprx.100-10,000. Although the methods of preparation are not claimed, 13 example preps. are included and >100 specific compds. with mass spectral data are included.

IT 458560-22-0P, (αR)-1-[[[2-Phenylethoxy]carbonyl]-α-[[[4-(4-chlorophenyl)phenyl]sulfonyl]amino]-4-piperidine-N-hydroxyacetamide 458560-25-3P, (αR)-1-[[[2-(1-Naphthyl)ethoxy]carbonyl]-α-[[[4-(4-chlorophenyl)phenyl]sulfonyl]amino]-4-piperidine-N-hydroxyacetamide

L4 ANSWER 4 OF 6 HCAPIJUS COPYRIGHT 2005 ACS on STN

2001:713311 Document No. 135:272811
[[[Biphenylsulfonyl]amino]-[1-substituted-piperidin-4-yl]-acetic acids as metalloprotease inhibitors. Pikul, Stanislaw; Ohler, Norman Eugene; Almstead, Neil Gregory; Laughlin, Steven Karl; Natchus, Michael George; De, Biswanath (Procter + Gamble Company, USA). PCT Int. Appl. WO 2001070691 A1 20010927. 56 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US8931 20010302. PRIORITY: US 2000-PV191302 20000321.

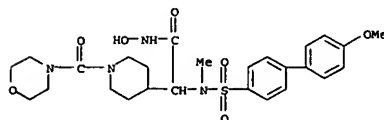
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

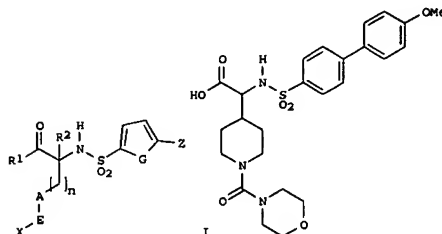
AB The title compds. [I; R1 = OH, NHOH; R2 = H, alkyl, alkenyl, etc.; R3 = alkyl, alkenyl, haloalkyl, etc.; A = (un)substituted monocyclic heterocycloalkyl; or A is bonded to R2 to form (un)substituted monocyclic heterocycloalkyl; n = 0-4; E = a bond, alkylene, CO, etc.; X = H, alkyl, aryl, etc.; G = S, O, N:N, etc.; G1 = S, O, N:N, etc.; M = CH, N; Z = OMe, halo, etc.] such as compound II which are inhibitors of metalloproteases and which are effective in treating conditions characterized by excess activity of these enzymes such as arthritis and cancer, were prepared and formulated (no data for intermediates and final compds.). Also described are pharmaceutical compns. comprising these compds., and methods of treating metalloprotease-related maladies using the compds. I or the pharmaceutical compns.

IT 362524-37-6P
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
[[[Biphenylsulfonyl]amino]-[1-substituted-piperidin-4-yl]-acetic acids as metalloprotease inhibitors]

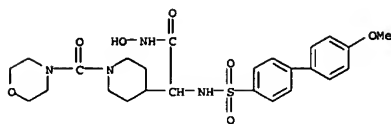
RN 362524-37-6 HCAPIJUS
CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy(1,1'-biphenyl)-4-yl]sulfonyl]methylamino]-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX NAME)



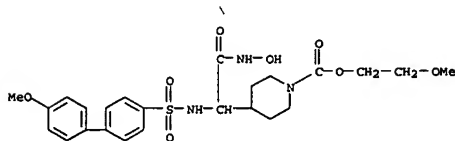
L4 ANSWER 5 OF 6 HCAPIJUS COPYRIGHT 2005 ACS on STN
 2001:713310 Document No. 135:257165 [(Hetero)arylsulfonylamino]-[1-substituted-piperidin-4-yl]-acetic acids as metalloprotease inhibitors. Pikul, Stanislaw; Ohler, Norman Eugene; Almstead, Neil Gregory; Laughlin, Steven Karl; Natchus, Michael George; De, Biswanath (Procter + Gamble Company, USA). PCT Int. Appl. WO 2001070690 A1 20010927, 69 pp.
 DESIGNATED STATES: W: AS, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FR, GB, GD, GE, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RM: AT, BE, BF, BJ, CF, CG, CH, CI, CN, CO, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US8783 20010320. PRIORITY: US 2000-PV191303 20000321.
 GI



AB The title compds. [I; R1 = OH, NHOH; R2 = H, alkyl, haloalkyl, etc.; A = (un)substituted monocyclic heterocycloalkyl; A can be connected to R2 to form (un)substituted monocyclic heterocycloalkyl; n = 0-4; E = a bond, alkyl, CO, etc.; X = H, alkyl, aryl, etc.; G = S, O, N:N, etc.; Z = cycloalkyl, heterocycloalkyl, etc.] such as II which are inhibitors of metalloproteases and which are effective in treating conditions characterized by excess activity of these enzymes such as arthritis and cancer, were claimed and formulated (prepn. were given but no data for intermediates and final compds.).
 IT 362525-92-6P
 RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 [(Hetero)arylsulfonylamino]-[1-substituted-piperidin-4-yl]-acetic acids as metalloprotease inhibitors
 RN 362525-92-6 HCAPIJUS
 CN 4-Piperidineacetamide, N-hydroxy-α-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonylamino]-1-(4-morpholinylcarbonyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 6 HCAPIJUS COPYRIGHT 2005 ACS on STN
 2001:474054 Document No. 135:210918 Potent and Selective Carboxylic Acid-Based Inhibitors of Matrix Metalloproteinases. Pikul, Stanislaw; Ohler, Norman E.; Ciszewski, Greg; Lauferweiler, Michael C.; Almstead, Neil G.; De, Biswanath; Natchus, Michael G.; Haieh, Lily C.; Janusz, Michael J.; Peng, Sean X.; Branch, Todd M.; King, Selene L.; Taiwo, Yetunde O.; Mieling, Glen E. (Health Care Research Center, Procter and Gamble Pharmaceuticals, Mason, OH, 45040, USA). Journal of Medicinal Chemistry, 44(16), 2499-2502 (English) 2001. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.
 AB A novel series of carboxylic acids containing a substituted piperidine were synthesized and tested for inhibition of selected matrix metalloproteinases. Multiple analogs prepared based on this novel design were found to inhibit the target MMPs (MMP-2, -3, -8, -9, and -13) with unprecedented, low nanomolar potency while, at the same time, sparing MMP-1 and MMP-7. Solubility and plasma protein binding of several members of this new series of carboxylic acids were also investigated.
 IT 357413-54-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of carboxylic acid-based inhibitors of matrix metalloproteinases)
 RN 357413-54-8 HCAPIJUS
 CN 1-Piperidinecarboxylic acid, 4-[2-(hydroxyamino)-1-[[[4'-methoxy[1,1'-biphenyl]-4-yl]sulfonylamino]-2-oxoethyl]-, 2-methoxyethyl ester (9CI) (CA INDEX NAME)



=> fil caol;s l3
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
32.09	200.49

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.38	-4.38

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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L5 0 L3

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.43	200.92

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-4.38

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STRUCTURE FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4
DICTIONARY FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4

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Searched by: Mary Hale 571-272-2507 REM 1D86

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